



EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
16.04.2025 Bulletin 2025/16

(43) Date of publication A2:
15.01.2025 Bulletin 2025/03

(21) Application number: **24213089.6**

(22) Date of filing: **11.05.2015**

(51) International Patent Classification (IPC):
B29C 67/00 ^(2017.01) **B22F 10/28** ^(2021.01)
B22F 12/90 ^(2021.01) **B22F 10/85** ^(2021.01)
B22F 10/32 ^(2021.01) **B33Y 30/00** ^(2015.01)
B33Y 10/00 ^(2015.01) **B33Y 50/02** ^(2015.01)

(52) Cooperative Patent Classification (CPC):
(C-Sets available)
B29C 64/153; B22F 10/28; B22F 10/32;
B22F 10/36; B22F 10/37; B22F 10/38; B22F 10/85;
B22F 12/90; B29C 64/393; B33Y 10/00;
B33Y 50/02; G01J 5/004; B22F 10/322;
B22F 2203/03; B22F 2999/00; (Cont.)

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR

(30) Priority: **09.05.2014 US 201461991041 P**

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
15167213.6 / 2 942 132

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(54) **SENSOR FUSION FOR POWDER BED MANUFACTURING PROCESS CONTROL**

(57) A system (10) for additive manufacturing a component (12) includes an additive manufacturing machine (14) for building a component layer by layer (18, 20, 21), first and second sensors (34, 36) configured to collect first and second physical property data for each layer (18, 20, 21) of the component (12) as each layer (18, 20, 21) is formed by the additive manufacturing machine (14). A

computing device (40) is operatively connected to the first and second sensors (34, 36) and configured to receive the first and second physical property data of the component (12) and configured to compare the first physical property data with the second physical property data to determine a potential failure mode in the component (12).

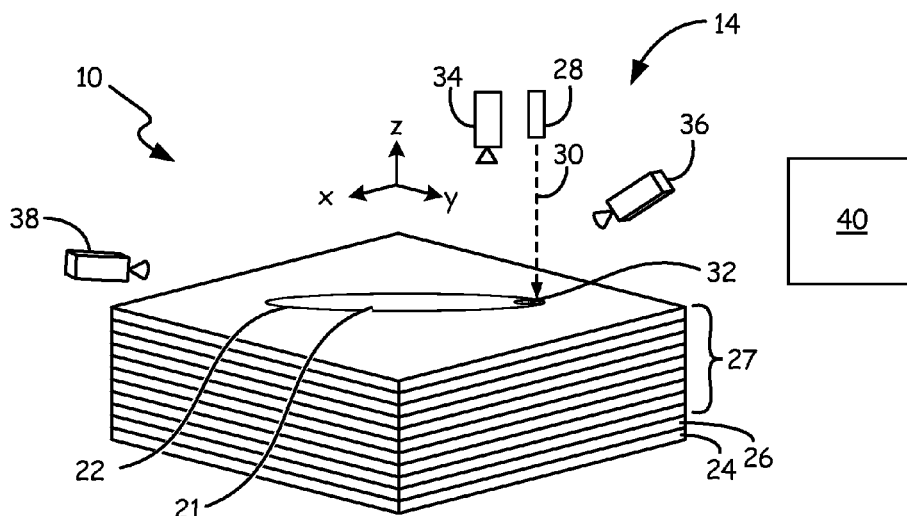


FIG. 1c

(52) Cooperative Patent Classification (CPC): (Cont.)
G01J 2005/0077; G05B 19/4099; Y02P 10/25

C-Sets

B22F 2999/00, B22F 10/85, B22F 2203/03,
B22F 12/90



EUROPEAN SEARCH REPORT

Application Number

EP 24 21 3089

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A	* page 4, lines 1-9,31 - page 5, line 9 * * page 12, lines 4-14 * * page 12, line 31 - page 13, lines 4,19-25 * * page 18, line 20 - page 19, line 15; claims 1,5; figure 1 *	8	B22F12/90 B22F10/85 B22F10/32 B33Y30/00 B33Y10/00 B33Y50/02
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A	US 6 580 959 B1 (MAZUMDER JYOTI [US]) 17 June 2003 (2003-06-17) * column 2, lines 43-57; figure 1 * * column 3, line 3 - column 4, line 7 * * column 4, lines 8-14,31-39 * * column 5, lines 25-67 * * column 5, line 68 - column 6, line 55 *	1-13	
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 10 March 2025	Examiner Aliouane, Nadir
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10-03-2025

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